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# NUMBERS & ODDITIES #
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- http://www.spynumbers.com/numbersDB/ -
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-::: N&O #58, February 2003 :::-

Serious lack of time prevented me to write this month's N&O. Much to my regret I only received one(!) numbers item this month plus several intelligence related notes. Your input is most welcome folks; don't let me down!!!

#### \* VOICE STATIONS \*

::: E10

Two string reports, both from Pile:

9 Feb, 0530 UTC, 4360 kHz: KPA 6K  
 11 Feb, 0504 UTC, 7605 kHz: CIO 60

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::: E16, G14, G15, G16 IDENTIFIERS

I received a large list of "BND" id numbers from Alpha, who compiled the list. I added the PN and DFC37 id's to the list. The latter two and a number of other id's were found in Simon Mason's "Secret Signals" book.

Note that:

- Papa November (PN) was G15.
- Except for PN, all id numbers belong to G16 except when E16 is mentioned. Several two-letter calls had both German and English transmissions. In these cases the id numbers are listed separately.

-> G14

DFC37 and DFD21

002/12/20/36/44/47/62/65/69/74/79/83/85/94/95

107/14/16/17/21/29/30/34  
147/54/57  
204/11/25/29/36/37/51/59/61/73/78/91/95  
316/23/30/36/54/56/87/97  
400/11/13/14/23/26/28/31/35/50/71/83/90  
619/23/41/44  
651/80  
735/84/92  
811/17/21/23/27/32/40/46/51/52/67/72/80/90  
904/14/25/34  
991

Frequencies: 3370 and 4010 kHz.

Skeds started at the hour and were repeated at h+30

-> E16, G15, G16

AB - 804, 299, 531  
AG - unknown (E16)  
AK - 722, ... (E16)  
AL - 042, 969, 023  
AM - 119, 791  
AO - 142, 113  
AU - 214 (E16)  
AU - 942, 244, 192, 600, 349, 385, 006, 554, 691 (all G16)  
AV - unknown

BE - 558, 903  
BI - 191, 721  
BJ - 358, 591, 152, 870  
BL - 139, 448, 257 (all E16)  
BN - (E16)  
BQ - 503, 742  
BU - 608,073, 492

CD - 059, 432, 707, 162, 262, 622, 711  
CI - 444, 555, 666, 888, 780 (possibly tests only)  
CN - 158, 430, 005, 831, 189  
CT - 884\*), 465, 223, 286, 032

DA - 034 (E16)  
DB - 038, 329, 848  
DF - 281, 718  
DL - 131 (E16)  
DM - 214 (E16)  
DO - 167 (E16)  
DT - 809, 015, 503, 991, 686, 062

DW - unknown

EA - unknown

EB - 528, 362

EG - 472, 795, 267, 823, 680

EH - 437 (E16)

EL - 611, 236, 147, 928, 510, 063, 490, 236

ER - 573, 885

FB - 009, 382, 653, 361

FK - 207 (E16)

FP - 081

FR - 043

FS - 099, 361, 816

FZ - unknown

GC - 082, 808, 334

GK - 856, 316, 571, 386, 477, 740, 846

GZ - 628, 803, 285

HK - 393, 621, 328, 003, 373, 921

HS - 639, 344, 961

IO - unknown

IT - 139, 525

JB - 606, 995, 239

JD - 534, 802

JO - unknown (E16)

JU - 271, 667, 499

JW - 521, 081, 123, 542, 824, 818

KA - unknown

KG - 408, 390

KJ - unknown

KR - 737, 171, 157

KW - 884, 091, 908, 513, 023, 417, 568, 920

LA - 873, 355, 363

LD - 482, 677, 146

LE - 633, 910, 262

LG - 224, 484, 761

LM - unknown

LR - unknown

LU - 998, 031, 456

MD - 017, 241, 331, 296, 565, 221, 850 (all E16)

MH - 013, 255, 604

MN - 628  
MU - unknown  
MY - unknown

NI - unknown  
NL - unknown  
NQ - unknown  
NU - 264, 599, 368, 526  
NZ - 202, 649, 955

OA - 122, 820, 039  
OE - unknown  
OK - 319, 617, 812  
OL - unknown

PB - 917, 263, 709  
PD - 054, 551, 301  
PG - 217, 424, 732  
PJ - unknown  
PL - 855, 131, 679

PN - 007, 018, 040, 046, 052, 057, 064, 078, 084, 092, 096, 109, 112,  
126, 133, 144, 156, 160, 174, 178, 179, 181, 197, 212, 217, 219,  
220, 231, 233, 238, 243, 269, 275, 280, 293, 307, 312, 318, 321,  
337, 348, 351, 352, 367, 372, 376, 383, 399, 406, 422, 438, 448,  
462, 464, 468, 479, 484, 487, 491, 494, 525, 535, 541, 543, 544,  
552, 563, 564, 569, 572, 581, 585, 587, 595, 602, 616, 620, 637,  
657, 669, 678, 683, 687, 688, 690, 695, 706, 713, 717, 725, 736,  
749, 765, 771, 799, 805, 809, 825, 843, 849, 853, 868, 877, 881,  
887, 891, 905, 916, 923, 927, 935, 948, 965, 966, 974, 994, 997

PR - unknown  
PT - 118, 551  
PZ - 143, 625, 374, 411

QL - 410, 028

RD - 041, 116, 208, 457, 520, 914  
RK - 104,702 (all E16)  
RO - 941, 098, 660  
RT - unknown

SB - 527, 962, 498, 174, 613  
ST - 481, 755

TE - 460, 103  
TI - unknown  
TP - 004, 975, 738, 696

UF - 234, 655, 049

UG - unknown  
UI - 443, 778  
UL - 137, 781, 218

VB - 088, 415, 697  
VI - 101 (E16)  
VN - unknown  
VO - 141, 283, 507

WL - 115, 522, 026, 005, 831  
WP - 989, 716

XA - 331  
XL - 381, 427, 610

YB - 042, 979, 676  
YH - unknown  
YS - 635, 516, 027, 907

ZB - 589, 926, 203  
ZD - unknown  
ZG - 763, 405  
ZO - 209, 391, 475, 681  
ZP - 505, 125, 703  
ZT - 250, 863

#### Frequencies:

2690, 2707, 2745, 3228, 3262, 4543, 4594, 4773, 4821,  
4888, 5015, 5182, 5284, 5732, 5770, 5775, 6370, 6765,  
6853, 7407, 7532, 7661, 7740, 7752, 7858, 8063, 8105,  
8173, 9040, 9325, 9450, 10170, 10177, 10460, 10500, 10740,  
11108, 11545, 11617, 12092, 12210, 12314, 13362, 13413, 13752,  
13775, 13782, 13890, 14622, 14945, 15586, 15610, 16055, 16220,  
16414, 17430, 18195, 18575, 19295, 19755, 20240, 20350, 20675,  
22885 kHz.

Skeds started at the hour and h+30, 24h a day.

\*) All traffic for this identifier starts with either a 1 or a 0,  
e.g. 01222, 19988. This applies to 884 only, the others use  
random five figures.

-0-0-0-0-0-0-0-0-0-0-

\* MORSE STATIONS \*

::: M13

Transcript of 7927 kHz, 14-2-2003, 2100 UTC.

714 714 714 714 714 714 714 714 714 714  
714 714 714 714 714 714 714 714 714 714  
714 714 714 714 714 714 714 714 714 714  
714 714 714 714 714 714 714 714 714 714  
714 714 714 714 714 714 714 714 714 714 =  
221 22 =  
6t449 51191 34516 14783 t2378 37774 6t4t2 t5744 5tt8t t48t5  
t4455 31tt2 42545 53866 t8673 59374 38318 5794t 53844 1t396  
27t14 5t756 =  
714 714 714 714 714 714 714 714 714 714 =  
221 22 =  
6t449 51191 34516 14783 t2378 37774 6t4t2 t5744 5tt8t t48t5  
t4455 31tt2 42545 53866 t8673 59374 38318 5794t 53844 1t396  
27t14 5t756 =  
ttt

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::: M18

M18 was heard most of the month on 4130 kHz, sending Moscow time strings (UTC+3). The station is located in Ust'Kamenogorsk, Kazakhstan.

<<<<<>>>>>

::: M21

Next month several corrections to my PVO article from a couple of months ago. PVO (M21) was heard on 3322 and 4631,5 kHz this month, transmitting it's usual id/time strings and plots.

=99?T225?9?????  
=1T154196812722  
=1T154196812724  
=1T154196813726  
=1T154196831728  
=1T154196831732  
=1T154193821734  
=1T154193822736  
=1T15451?T9T9  
=129T614514236  
=229T6?T9T7  
=4T54T154????  
=129T6194514236  
=129T719649736  
=129T9451424

=129T61944356  
=129T819453144  
=9T8194435746  
=29T69T11TT7?

<<<<<>>>>

::: MX

Cluster beacon "C" in Moscow was active during a number of days and used all cluster frequencies, even the lowest one, which was last logged quite a while ago: 3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz.

-0-0-0-0-0-0-0-0-0-0-

\* UNID STATION \*

An unid station transmitted on 2742.2 in the first half of the month. I parked my radio for a couple of hours on that frequency and noticed that the beacon apparently has a schedule: hh13-hh17 and hh43-hh47.

I heard the following:

2043-2047 F  
2055-2100 VVV VVV VVV K VVV VVV VVV K  
2113-2117 F  
2143-2147 F  
2213-2217 F  
2243-2247 F

Brian copied some traffic from "F" at 2100 UTC. It transmitted in hand keyed CW "X08U X08U X08U de Y2AJ Y2AJ Y2AJ K", followed by some QRZs, some QRVs and a series of VVVVV. Then "X08U X08U X08U QTC K QSA? K". Then launched into a series of hand sent numbers, often poorly sent, using a short zero. Both stations were audible.

So, who is this? Looking at the conditions, it is impossible that this is the Vladivostok beacon. It is way too loud. There has been a "F" beacon from the Gdynia area, that was reported on 2842.8 and 4555.8 kHz in the past. It transmitted only during day time. Maybe it's back again.

-0-0-0-0-0-0-0-0-0-0-

\* VARIOUS MODES \*

::: XM

Laurent sent me a note about a loud "whales" station on 8973 kHz. When

I tuned in I found a VERY loud feedback signal. When I compare the signal to others from around the world, I found that it must have been from a location not far from Holland.

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\* INTELLIGENCE NEWS \*

A number of listeners sent me info that they heard or found in the local newspapers, internet or tv. When available, I have included the original sources.

::: CHINA / CUBA

Fidel Castro visited China in February, where he received a warm welcome from the Chinese Communist Party's top leaders, reports the Australian Age. While China has replaced the Soviet Union as Cuba's top trading partner, Castro provides China with its most significant electronic spy base near the United States. Professor Desmond Ball of the Australian National University says Chinese personnel have been operating two intelligence signal stations in Cuba since early 1999, after an agreement reached in February 1998. The large complex at Bejucal, just south of Havana, is equipped with 10 satellite communications antennas and is mainly concerned with intercepting telephone communications in the U.S. A "cyber warfare" unit is also based at Bejucal. The second station is located north-east of Santiago de Cuba, reportedly dedicated to intercepting satellite-based U.S. military communications. "China is actively and extensively engaged in the whole realm of signals intelligence, electronic warfare and cyber warfare activities," Professor Ball said, adding that the Beijing regime maintains "by far the most extensive signals intelligence capabilities of all the countries in Asia." The Chinese military also maintains a fleet of specialized ships and aircraft for mobile interception operations. Equipment comes from Russia and Israel, as well as domestic laboratories.

China has been conducting cyber warfare exercises since 1997. Computer viruses have been used to disrupt military communications and public broadcasts, with targets including Japan, India, South Korea and Taiwan. The military effort is augmented by individual hackers in China, whose feats have included crashing the White House web site.

(Source: American Foreign Policy Council)

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::: SENEGAL



The state equips itself to spy on its citizens more effectively. In her January 31 issue, the weekly "New Horizons" states that the Senegalese security services have received intercept equipment for cell phones and other communications devices. The equipment has a value of 100 million CFA Francs and was supplied by their friends, the French intelligence agency DGSE.

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::: NORTH KOREA

19 February 2003.

South Korea's top spy says there are no new signs that North Korea has restarted a dormant atomic reactor in Yongbyon, despite reports that it was preparing to do so.

Source: [http://www.7am.com/cgi-bin/wires02.cgi?1000\\_2003021905.htm](http://www.7am.com/cgi-bin/wires02.cgi?1000_2003021905.htm)

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::: USA

Government warns 'patriot hackers'.

Monday, February 17, 2003.

WASHINGTON (AP) -- Real patriots don't hack. Uncle Sam says only he can do that.

The FBI's National Infrastructure Protection Center warned Wednesday that growing tensions between the United States and Iraq could lead to an increase in global computer hacking activities on both sides.

Source:

<http://www.cnn.com/2003/TECH/internet/02/13/patriot.hackers.ap/index.html>

Note:

It was published in Metro-Paris ed- that G.W.B. would have recently signed a confidential presidential directive stating that America's response to cyber-terrorism could not only take place from law courts.

Related:

National Infrastructure Protection Center external link

<http://www.nipc.gov/warnings/advisories/2003/03-002.htm>

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::: PERU

Former Head of Peruvian Intelligence on Public Trial.

Vladimiro Lenin Montesinos faces 57 charges, including connections with drug-trafficking, bribing, tortures and political assassinations. In what has been called by the local media as the "Trial of the Century", the ex spy and presidential advisor Vladimiro Montesinos, appeared in court on Tuesday. The public trial against him comes after courts sentenced Montesinos to nine years in jail last July for abuse of power.

Source: <http://english.pravda.ru/main/2003/02/19/43466.html>

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::: COLOMBIA

Three CIA Agents Taken Hostage by Rebels.

They were on board the plane that made an emergency landing in the Southern jungles of the country. A huge military operation has been launched by the Colombian and army and US officials to rescue three CIA agents presumably captured by the Revolutionary Armed Forces of Colombia -FARC-. The local media estimates in 2.500 the personnel taking part in the actions underway, but no positive results have been reported until now

Source: <http://english.pravda.ru/main/2003/02/18/43429.html>

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::: RUSSIA

There is Nothing Wrong about Special Services hiring foreign agents.

Former KGB agent talks about peculiarities of Soviet and American special services. Hiring agents for adversary's special services has always been the prime goal for intelligence services of various countries all over the world. What makes the agents of most secret special services of the world betray their duty and serve for their enemies? What makes secret agents act like that, although their reliability was tested over and over again? Former employee of the Foreign Counterintelligence Administration of USSR's KGB, retired colonel Viktor Cherkashin, gave an interview on the matter to PRAVDA.Ru. Viktor Cherkashin was implicated in hiring a very valuable agent for KGB's foreign intelligence department, Aldrich Ames.

Source: <http://english.pravda.ru/main/2003/02/17/43425.html>

-0-0-0-0-0-0-0-0-0-0-

★ LOGS SECTION ★

2261		Czech mil. c6cp de s8bd s8bd qtc 547 + CW 04-02-03 Tue 2220 (AB)
2362		Czech/Slovak mil. FIH7 clg VIV3. 5fsgs, 5lgs and 5-combi CW 01-02-03 Sat 2300 (AB)
2362		Czech/Slovak mil. QLI7 msgs to CWD5 CW 02-02-03 Sun 2000 (AB)
2362		Czech/Slovak mil. Msgs to GLPR CW 06-02-03 Thu 2121
2362		Czech/Slovak mil. Msgs to L3IO CW 08-02-03 Sat 2321
2362		Czech/Slovak mil. Msgs to FINU CW 21-02-03 Fri 2247
2547.2		Channel marker "F" CW 04-02-03 Tue 1758 (AB)
2547.2		Channel marker "F". Off at 2017 UTC CW 05-02-03 Wed 2013 (AB)
2548	M51	in progress CW 04-02-03 Tue 1758 (AB)
2611		S8BD. Czech mil. 5FGs // 3397 kHz. Msg to C6CP CW 02-02-03 Sun 0001 (AB)
2743	E10	ULX AM 08-02-03 Sat 2130 (AB)
2846	S10d	555 555 555 338 338 338 22 (rptd) 338 338 338 40 40 22 22 pozor pozor 5FGs pozor pozor 40 40 22 22 konec konec AM 03-02-03 Mon 2020 (AB)
3025.0	M08a	ID 29343 67732 21404 CW 22-02-03 Sat 1000 (MS)
3150	E10	PCD2 AM 08-02-03 Sat 2130 (AB)
3150.0	E10	PCD2 USB 22-02-03 Sat 0330 (BS4)
3195	MX	Russian mil Izhevsk. Channel marker "R" CW 01-02-03 Sat 2315 (AB)
3195	MX	Russian mil Izhevsk. Channel marker "R" CW 06-02-03 Thu 2143 (AB)
3244.0	M08a	ID 36403 47333 86602 CW 22-02-03 Sat 1000 (MS)
3270	E10	CI02 AM 02-02-03 Sun 1952 (AB)
3292.0	V02a	A 77042 85182 22914; unusual ID ending in 4 AM 18-02-03 Tue 0400 (BM)
3322	M21	Russian Air Defense. T056??T????? =992258??T????? CW 1822 (MM4)
3336.1	MX	Russian navy St.Petersburg. Channel marker "L" CW 01-02-03 Sat 2312 (AB)
3336.5	MX	Channel marker "L", St Petersburg. Still moving around CW 08-02-03 Sat 2158 (AB)
3397		S8BD. Czech mil. 5FGs // 2611 kHz. Msg to C6CP CW 02-02-03 Sun 0001 (AB)
3397		Czech mil. c6cp de s8bd s8bd qtc 547 + CW 04-02-03 Tue 2220 (AB)
3415	E10	ART AM 08-02-03 Sat 2131 (AB)
3485	M62	B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 + CW 01-02-03 Sat 2257 (AB)
3523.0	M10	555x3 929x3 29 717x3 24 (R5) (// freq on 5027m) CW 21-02-03 Fri 0210 (MS)

3523.0	M10	555x3 929x3 29 717x3 24 (R5) (// freq on 5027m) CW 22-02-03 Sat 0210 (MS)
3594	MX	Cluster beacon "C" Moscow CW 08-02-03 Sat 2316 (AB)
3615.0	M51	CW 17-02-03 Mon 0021 (LC2)
3631	M10	555:816-40/628-41, //5471 CW 02-02-03 Sun 1800 (HFD)
3640	E10	SYN2 AM 08-02-03 Sat 2127 (AB)
3640	E10	SYN2 AM 08-02-03 Sat 2127 (AB)
3640.0	E10	SYN2 USB 11-02-03 Tue 0245 (BS4)
3640.0	E10	SYN2/7812 USB 24-02-03 Mon 0345 (BS4)
3658	MX	Russian navy Khiva. Channel marker "V" CW 01-02-03 Sat 2313 (AB)
3658	MX	Russian navy Khiva. Channel marker "V" CW 06-02-03 Thu 2140 (AB)
3756	S30	Pip CW 06-02-03 Thu 2145 (AB)
3803	M18	Russian mil. Time strings 2247 2248 2249 etc (UTC+3) CW 16-03-03 Sun 1947 (AB)
3828,9	XSW	Squeaky Wheel 06-02-03 Thu 2143 (AB)
3840.0	E10	YHF/4560 USB 22-02-03 Sat 0330 (BS4)
3926.0	M08a	ID 97822 64661 33332 CW 02-02-03 Sun 1000 (MS)
3926.0	M08a	ID 40893 22482 55433 CW 26-02-03 Wed 1000 (MS)
4015.0	E10	VLB2/5230 USB 11-02-03 Tue 0245 (BS4)
4017.0	V02a	In prog AM 18-02-03 Tue 0306 (BM)
4027.0	M08a	ID 66782 16062 42423 CW 08-02-03 Sat 1100 (MS)
4027.0	M08a	In prog CW 18-02-03 Tue 0306 (BM)
4027.0	M08a	ID 36403 47333 86602 (rpt of 1000z on 3244m) CW 22-02-03 Sat 1100 (MS)
4030	M10	555:571-24/275-37/ 049-27/435-26, //6763 CW 02-02-03 Sun 1630 (HFD)
4030	M10	555:571-34/275-37/ 049-27/435-26, //6763 CW 03-02-03 Mon 1630 (HFD)
4035.0	V02a	ID 01643 03513 85811 (YL/SS) AM 22-02-03 Sat 1000 (MS)
4130	S13	Russian 10-count (rptd 2 mins) USB 01-02-03 Sat 1701
4130	S13	Russian 10-count (rptd 2 mins) USB 05-02-03 Wed 1700
4130	S13	Russian 10-count (rptd 2 mins) USB 05-02-03 Wed 1700
4165	E10	CI02 AM 02-02-03 Sun 1952 (AB)
4165.0	E10	CI02/7605 USB 11-02-03 Tue 0245 (BS4)
4165.0	E10	CI02/7605 USB 24-02-03 Mon 0345 (BS4)
4173.0	M08a	ID 97822 64661 33332 (rpt of 1000z on 3926m) CW 02-02-03 Sun 1100 (MS)
4173.0	M08a	ID 66783 91441 16063 CW 09-02-03 Sun 1100 (MS)
4173.0	M08a	(in progress) CW 23-02-03 Sun 1100 (MS)
4173.0	M08a	ID 40893 22482 55433 (rpt of 1000z on 3926m) CW 26-02-03 Wed 1100 (MS)
4241	M22	4XZ. Israeli Navy Tel Aviv CW (MM4)
4270	E10	PCD2 AM 08-02-03 Sat 2130 (AB)
4280	G04	31160 82057 35 gr AM 06-02-03 Thu 2100 (HFD)
4325,8	MX	Russian mil Izhevsk. Channel marker "R" CW 06-02-03 Thu 2143 (AB)

4360	E10	KPA 6K AM 09-02-03 Sun 0530 (PILE)
4360.0	E10	KPA2/7445 USB 11-02-03 Tue 0215 (BS4)
4360.0	E10	KPA2/7445 USB 23-02-03 Sun 2315 (BS4)
4380	G04	31160 82057 35 gr AM 06-02-03 Thu 2130 (HFD)
4461	E10	FTJ AM 09-02-03 Sun 2031 (AB)
4461.0	E10	FTJ2 USB 25-02-03 Tue 0400 (BS4)
4461.0	E10	FTJ in tfc USB 26-02-03 Wed 0100 (BS4)
4461.0	E10	FTJ USB 27-02-03 Thu 0100 (BS4)
4478.0	M08a	ID 29941 21683 21402 CW 08-02-03 Sat 1100 (MS)
4478.0	M08a	ID 29343 67732 21404 (rpt of 1000z on 3025m) CW 22-02-03 Sat 1100 (MS)
4507.0	V02a	(in progress - very weak) AM 08-02-03 Sat 1100 (MS)
4507.0	V02a	ID 01643 03513 85811 (YL/SS)(rpt of 1000z on 4035m) AM 22-02-03 Sat 1100 (MS)
4558	MX	Cluster beacon "C" Moscow CW 08-02-03 Sat 2105 (AB)
4560	E10	YHF2 AM 08-02-03 Sat 2130 (AB)
4560.0	E10	YHF2/7918 USB 13-02-03 Thu 0230 (BS4)
4560.0	E10	YHF2/5820,7918 USB 20-02-03 Thu 0230 (BS4)
4560.0	E10	YHF/3840 USB 22-02-03 Sat 0330 (BS4)
4625	S28	Buzzer 01-02-03 Sat 2311 (AB)
4625	S28	Buzzer 06-02-03 Thu 2145 (AB)
4625.0	S28	Buzzer with repeating high-pitched morse sequence. ??? AM 19-02-03 Wed 1840 (LN)
4631.0	M21	Russian Air Defense CW 10-02-03 Mon 0020 (LC2)
4631.5	M21	Russian Air Defense. =99?2353?9????? =2T133T11TT9 CW (MM4)
4631.5	M21	Russian Air Defense =99?t113?9????? CW 04-02-03 Tue 2213 (AB)
4631.5	M21	Russian Air Defense =99?T225?9????? =1T1541681272 99?T226?9????? CW 08-02-03 Sat 2325 (AB)
4632.0	M21	Russian Air Defense CW 18-02-03 Tue 0020 (LC2)
4685.0	M13	411 (R5) BT 246 20 BT CW 01-02-03 Sat 2130 (MS)
4685.0	M13	411 (R5) BT 246 20 BT (very weak signal) CW 15-02-03 Sat 2130 (MS)
4792	G06	ip AM 14-02-03 Fri 1935 (HFD)
4835.0	S10	AM 12-02-03 Wed 2100 (JE)
4836.0	E06	in progress, *very* strong USB 20-02-03 Thu 2035 (SE)
4880	E10	ULX AM 08-02-03 Sat 2130 (AB)
4880.0	E10	ULX 40 IQVIO USB 11-02-03 Tue 0200 (BS4)
4880.0	E10	ULX USB 13-02-03 Thu 0230 (BS4)
4880.0	E10	ULX USB 17-02-03 Mon 0030 (BS4)
4880.0	E10	ULX 32 KAZIN USB 20-02-03 Thu 0230 (BS4)
4880.0	E10	ULX 90 GGNSV USB 25-02-03 Tue 0330 (BS4)
4880.0	E10	ULX 45 FJKYG USB 25-02-03 Tue 0400 (BS4)
4880.0	E10	ULX 153 NZJQW USB 26-02-03 Wed 0200 (BS4)
4880.0	E10	ULX 153 NZJQW USB 27-02-03 Thu 0200 (BS4)
4958	M10	555:127-29/867-37 CW 02-02-03 Sun 1720 (HFD)
4958	M10	555:127-29/867-37, //7605 CW 03-02-03 Mon 1720 (HFD)

4958 M10 555: 242-06/32=807#3, 264-25/19=61478, //7605 CW  
 15-02-03 Sat 1720 (HFD)  
 5027.0 M10 555x3 127x3 29 867x3 37 (R5) CW 01-02-03 Sat 0410 (MS)  
 5027.0 M10 555x3 127x3 29 867x3 37 (R5) CW 02-02-03 Sun 0410 (MS)  
 5027.0 M10 555x3 143x3 41 467x3 27 (R5) CW 09-02-03 Sun 0210 (MS)  
 5027.0 M10 555x3 143x3 41 467x3 27 (R5) (rpt of 0210z on 5027m)  
 CW 09-02-03 Sun 0410 (MS)  
 5027.0 M10 555x3 242x3 32 264x3 19 (R5) CW 15-02-03 Sat 0210 (MS)  
 5027.0 M10 555x3 242x3 32 264x3 19 (R5) CW 16-02-03 Sun 0410 (MS)  
 5027.0 M10 555x3 929x3 29 717x3 24 (R5) (// freq on 3523m) CW  
 21-02-03 Fri 0210 (MS)  
 5027.0 M10 555x3 929x3 29 717x3 24 (R5) (// freq on 3523m) CW  
 22-02-03 Sat 0210 (MS)  
 5027.0 M10 555x3 929x3 29 717x3 24 (R5) CW 23-02-03 Sun 0210 (MS)  
 5027.0 M10 555x3 929x3 29 717x3 24 (R5) (rpt of 0210z sked on  
 5027m) CW 23-02-03 Sun 0410 (MS)  
 5027.0 M10 555x3 929x3 29 717x3 24 (R5) CW 26-02-03 Wed 0210 (MS)  
 5028 S10D 555:844-27/686-34, //7605 AM 03-02-03 Mon 1740 (HFD)  
 5090 E07 970:1-827/54=73159 AM 24-02-03 Mon 2140 (HFD)  
 5091.0 E10 JSR USB 18-02-03 Tue 2200 (BS4)  
 5091.0 E10 JSR USB 22-02-03 Sat 0330 (BS4)  
 5154 MX Cluster beacon "C" Moscow CW 08-02-03 Sat 2057 (AB)  
 5230.0 E10 VLB2 USB 01-02-03 Sat 1645 (GG)  
 5230.0 E10 VLB2 USB 01-02-03 Sat 1645 (GG)  
 5230.0 E10 VLB2/4015 USB 11-02-03 Tue 0245 (BS4)  
 5230.0 E10 VLB2 AM 24-02-03 Mon 0345 (BS4)  
 5301 S17C 11036 //8190 (new freqs, ex 9165) AM 01-03-03 Sat 1250  
 (HFD)  
 5410.0 M29 16/36:6 0800=76506 CW 01-02-03 Sat 1330 (HFD)  
 5420 M29 67/33: 3 0800= 0#656 CW 03-02-03 Mon 0700 (HFD)  
 5420 M29 18/39:17 0700= 57520 CW 17-02-03 Mon 1300 (HFD)  
 5432.0 E10 faint USB 18-02-03 Tue 0430 (BM)  
 5435 E10 ART AM 08-02-03 Sat 2131 (AB)  
 5435.0 E10 ART in tfc USB 11-02-03 Tue 0200 (BS4)  
 5435.0 E10 ART2 USB 12-02-03 Wed 0130 (BS4)  
 5435.0 E10 ART 87 FKPKY USB 12-02-03 Wed 0200 (BS4)  
 5435.0 E10 much qrm USB 17-02-03 Mon 0430 (BM)  
 5435.0 E10 very faint USB 18-02-03 Tue 0400 (BM)  
 5435.0 E10 ART USB 18-02-03 Tue 2200 (BS4)  
 5435.0 E10 ART 11 PHZJZ USB 24-02-03 Mon 0130 (BS4)  
 5435.0 E10 ART 66 JGVLD USB 25-02-03 Tue 0400 (BS4)  
 5435.0 E10 ART 95 LGHJU USB 26-02-03 Wed 0200 (BS4)  
 5435.0 E10 ART 95 LGHJU USB 27-02-03 Thu 0200 (BS4)  
 5435.0 E10 ART 95 LGHJU USB 28-02-03 Fri 0200 (BS4)  
 5437.0 E10 i/p 2 msgs : 56 DVHKO / 53 RHIKE USB 24-02-03 Mon  
 0040 (GG)  
 5437.0 E10 i/p 2 msgs : 56 DVHKO / 53 RHIKE USB 24-02-03 Mon  
 0040 (GG)

5437.0 E10 ART 2 msgs : 56 DVHKO / vanished in QRM USB 25-02-03  
Tue 0030 (GG)  
5437.0 E10 ART 2 msgs : 56 DVHKO / vanished in QRM USB 25-02-03  
Tue 0030 (GG)  
5437.0 E10 ART 2 msgs : 56 DVHKO / 53 RHIKE USB 27-02-03 Thu 0030  
(GG)  
5437.0 E10 ART 2 msgs : 56 DVHKO / 53 RHIKE USB 27-02-03 Thu 0030  
(GG)  
5437.0 E10 ART 2 msgs : 56 DVHKO / 53 RHIKE USB 28-02-03 Fri 0030  
(GG)  
5437.0 E10 ART 2 msgs : 56 DVHKO / 53 RHIKE USB 28-02-03 Fri 0030  
(GG)  
5450.0 S13 russian counting station on top of RAF volmet USB  
19-02-03 Wed 2115 (ASC)  
5465 MX Russian mil Izhevsk. Channel marker "R" CW 01-02-03  
Sat 2315 (AB)  
5465,8 MX Russian mil Izhevsk. Channel marker "R" CW 06-02-03  
Thu 2143 (AB)  
5471 M10 555:816-40/628-41, //3631 CW 02-02-03 Sun 1800 (HFD)  
5520 M29 67/33: 3 0800= 0#656 CW 03-02-03 Mon 0730 (HFD)  
5520 M29 18/39:17 0700= 57520 CW 17-02-03 Mon 1330 (HFD)  
5530.0 E15 in progress, e15 (Adam, Roger...) USB 13-02-03 Thu  
2008 (SE)  
5820 E10 YHF2 AM 08-02-03 Sat 2130 (AB)  
5820.0 E10 YHF 77 TTDDP/7918 USB 12-02-03 Wed 0130 (BS4)  
5820.0 E10 YHF USB 18-02-03 Tue 2200 (BS4)  
5820.0 E10 YHF2/4560,7918 USB 20-02-03 Thu 0230 (BS4)  
5820.0 E10 YHF 53 UEHKN/7918 USB 24-02-03 Mon 0130 (BS4)  
5875 XP msg AM 14-02-03 Fri 2150 (HFD)  
5967.0 M13 272 (R5) BT 265 20 BT CW 18-02-03 Tue 2200 (MS)  
6270.0 E10 ULX 33 IMPTC USB 16-02-03 Sun 0100 (BS4)  
6270.0 E10 ULX 33 IMPTC USB 17-02-03 Mon 0100 (BS4)  
6270.0 E10 ULX2 USB 18-02-03 Tue 2200 (BS4)  
6270.0 E10 ULX2 USB 23-02-03 Sun 2200 (BS4)  
6270.0 E10 ULX 33 IMPTC/7760 USB 26-02-03 Wed 0100 (BS4)  
6270.0 E10 ULX 33 IMPTC/7760 USB 27-02-03 Thu 0100 (BS4)  
6352.0 M13 254 (R5) BT 231 22 BT CW 20-02-03 Thu 2200 (MS)  
6498 E10 PCD2 AM 08-02-03 Sat 2130 (AB)  
6498.0 E10 PCD USB 17-02-03 Mon 0030 (BS4)  
6540 M29 67/31: 4 0700= 30187 CW 25-02-03 Tue 0700 (HFD)  
6640 M29 67/31: 4 0700= 30187 CW 25-02-03 Tue 0730 (HFD)  
6732 E07 970:1-827/54=73159 AM 24-02-03 Mon 2120 (HFD)  
6763 M10 555:571-24/275-37/ 049-27/435-26, //4030 CW 02-02-03  
Sun 1630 (HFD)  
6763 M10 555:571-34/275-37/ 049-27/435-26, //4030 CW 03-02-03  
Mon 1630 (HFD)  
6767 XP msg AM 27-02-03 Thu 2120 (HFD)  
6786.0 V02a (in progress, missed callup.)(YL/SS) AM 22-02-03 Sat

1000 (MS)

6790	E06	English Man in progress AM 08-02-03 Sat 2206 (AB)
6797.0	M08a	ID 36451 88122 73582 CW 02-02-03 Sun 1200 (MS)
6797.0	M08a	ID 49062 73373 94703 CW 09-02-03 Sun 1200 (MS)
6797.0	M08a	ID 56863 22081 51091 CW 23-02-03 Sun 1200 (MS)
6797.0	M08a	ID 87273 96971 46981 CW 26-02-03 Wed 1200 (MS)
6840.0	E10	EZI AM 01-02-03 Sat 0230 (DM)
6840.0	E10	EZI2 AM 02-02-03 Sun 0102 (DM)
6840.0	E10	MIW2 AM 02-02-03 Sun 0116 (DM)
6840.0	E10	EZI followed by 5 letter groups AM 02-02-03 Sun 0130
6840.0	E10	EZI AM 02-02-03 Sun 0230 (DM)
6840.0	E10	5 letter groups AM 04-02-03 Tue 0148 (DM)
6840.0	E10	5 Letter groups AM 06-02-03 Thu 0243 (DM)
6840.0	E10	EZI 80 JMTTM USB 12-02-03 Wed 0130 (BS4)
6840.0	E10	EZI 2 msgs 96 JBFWT, xx xxxxx/9130 USB 13-02-03 Thu 0230 (BS4)
6840.0	E10	EZI2 USB 17-02-03 Mon 0100 (BS4)
6840.0	E10	EZI2/9130,11565 USB 20-02-03 Thu 0230 (BS4)
6840.0	E10	EZI 98 QWPSQ, 27 LOLUC/9130 Rpt of Msgs 2130z 0223 9130k USB 24-02-03 Mon 0130 (BS4)
6840.0	E10	EZI 74 OBFBC/9130 USB 25-02-03 Tue 0330 (BS4)
6840.0	E10	EZI2 USB 26-02-03 Wed 0100 (BS4)
6840.0	E10	EZI2 USB 27-02-03 Thu 0100 (BS4)
6884.0	M13	746 (R5) BT 226 21 BT CW 18-02-03 Tue 2220 (MS)
6912	E10	MIW2 AM 01-02-03 Sat 2319 (AB)
6912.0	E10	MIW2/8127 USB 11-02-03 Tue 0215 (BS4)
6912.0	E10	MIW2 USB 23-02-03 Sun 2315 (GG)
6912.0	E10	MIW2 USB 23-02-03 Sun 2315 (GG)
6912.0	E10	MIW2/8127 USB 23-02-03 Sun 2315 (BS4)
6933.0	M08a	ID 84983 88121 73581 CW 01-02-03 Sat 1200 (MS)
6933.0	M08a	ID 56862 12783 32133 (signal distorted) CW 22-02-03 Sat 1200 (MS)
6934	E07	913/0 AM 05-02-03 Wed 0610 (HFD)
6970.0	E05	"585" //8110 USB 15-02-03 Sat 2200 (SE)
6970.0	E05	"585" // 8110 USB 18-02-03 Tue 2100 (SE)
6992		Chinese Mil. V GM3Z GM3Z GM3Z DE PNM9 PNM9 CW 1900 (JUM)
7000	E06	107-#6/127=65893 AM 20-02-03 Thu 0600 (HFD)
7038.7	MX	Cluster beacon "D" Odessa CW 09-02-03 Sun 0904 (AB)
7039	MX	Cluster beacon "C" Moscow CW 08-02-03 Sat 2057 (AB)
7320.0	M08a	ID 36451 88122 73582 (rpt of 1200z on 6797m) CW 02-02-03 Sun 1300 (MS)
7320.0	M08a	ID 49062 73373 94703 (rpt of 1200z on 6797m) CW 09-02-03 Sun 1300 (MS)
7320.0	M08a	ID 56863 22081 51091 (rpt of 1200z on 6797m) CW 23-02-03 Sun 1300 (MS)
7358.0	E10	FTJ2 USB 25-02-03 Tue 0400 (BS4)
7445.0	E10	KPA2/4360 USB 11-02-03 Tue 0215 (BS4)



7445.0 E10 KPA2/4360 USB 23-02-03 Sun 2315 (BS4)  
7519.0 M08a (in progress - missed callup) CW 10-02-03 Mon 2200  
7519.0 M08a ID 32402 40171 02621 CW 26-02-03 Wed 2200 (MS)  
7526 XP 0-msg AM 06-02-03 Thu 2100 (HFD)  
7526 XP msg AM 27-02-03 Thu 2100 (HFD)  
7526.0 M08a ID 48682 35051 77061 CW 18-02-03 Tue 2200 (MS)  
7526.0 XPH USB 18-02-03 Tue 0021 (LC2)  
7527 XP 0-msg AM 20-02-03 Thu 2100 (HFD)  
7584 XP msg AM 14-02-03 Fri 2130 (HFD)  
7605 E10 CI02 AM 02-02-03 Sun 1952 (AB)  
7605 M10 555:127-29/867-37, //4958 CW 03-02-03 Mon 1720 (HFD)  
7605 M10 555: 242-06/32=807#3, 264-25/19=61478, //4958 CW  
15-02-03 Sat 1720 (HFD)  
7605 S10D 555:844-27/686-34, //5028 AM 03-02-03 Mon 1740 (HFD)  
7605.0 E10 CI02/4165 USB 11-02-03 Tue 0245 (BS4)  
7605.0 E10 CI02/4165 USB 24-02-03 Mon 0345 (BS4)  
7680.0 M08a ID ----- 31121 ----- (in progress) CW 23-02-03 Sun  
7760.0 E10 ULX 91 ATUGY USB 01-02-03 Sat 0100 (GG)  
7760.0 E10 ULX 91 ATUGY USB 01-02-03 Sat 0100 (GG)  
7760.0 E10 barely readable USB 02-02-03 Sun 0100 (GG)  
7760.0 E10 barely readable USB 02-02-03 Sun 0100 (GG)  
7760.0 E10 ULX ?? IMPTC USB 03-02-03 Mon 0100 (GG)  
7760.0 E10 ULX ?? IMPTC USB 03-02-03 Mon 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 08-02-03 Sat 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 08-02-03 Sat 0100 (GG)  
7760.0 E10 ULX 33 IMPTC (a "EZI2" popped up during call-up) USB  
10-02-03 Mon 0100 (GG)  
7760.0 E10 ULX 33 IMPTC (a "EZI2" popped up during call-up) USB  
10-02-03 Mon 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 13-02-03 Thu 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 13-02-03 Thu 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 17-02-03 Mon 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 17-02-03 Mon 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 18-02-03 Tue 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 18-02-03 Tue 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 20-02-03 Thu 0100 (GG)  
7760.0 E10 ULX 33 IMPTC USB 20-02-03 Thu 0100 (GG)  
7760.0 E10 ULX 33 IMPTC/6270 USB 26-02-03 Wed 0100 (BS4)  
7760.0 E10 ULX 33 IMPTC/6270 USB 27-02-03 Thu 0100 (BS4)  
7811 E10 SYN2 AM 08-02-03 Sat 2136 (AB)  
7812.0 E10 SYN 2 AM 10-02-03 Mon 2115 (LC2)  
7812.0 E10 SYN2 AM 12-02-03 Wed 0145 (BS4)  
7812.0 E10 SYN2/3640 USB 24-02-03 Mon 0345 (BS4)  
7818.0 E10 YHF2/4560 AM 13-02-03 Thu 0230 (BS4)  
7890.0 M08a ID 84983 88121 73581 (rpt of 1200z on 6933m) CW  
01-02-03 Sat 1300 (MS)  
7890.0 M08a ID 49061 73372 94702 CW 08-02-03 Sat 1300 (MS)  
7890.0 M08a ID 56862 12783 32133 (rpt of 1200z on 6933m) CW

22-02-03 Sat 1300 (MS)  
 7918 E07 970:1-827/54=73159 AM 24-02-03 Mon 2100 (HFD)  
 7918.0 E10 YHF 77 TTDDP/5820 USB 12-02-03 Wed 0130 (BS4)  
 7918.0 E10 YHF2/4560,5820 USB 20-02-03 Thu 0230 (BS4)  
 7918.0 E10 YHF 53 UEHKN/5820 USB 24-02-03 Mon 0130 (BS4)  
 7918.0 E10 YHF2 USB 26-02-03 Wed 0200 (BS4)  
 7927 M13 id 714 CW 14-02-03 Fri 2100 (AB)  
 8009.0 M08a (QRN too heavy to copy. Can hear xmtr under QRN) CW  
 10-02-03 Mon 2300 (MS)  
 8009.0 M08a ID 32402 40171 02621 (rpt of 2200z on 7519m) CW  
 26-02-03 Wed 2300 (MS)  
 8096.0 M08a In prog CW 17-02-03 Mon 0506 (BM)  
 8096.0 M08a ID 64481 86432 09082 CW 23-02-03 Sun 0700 (MS)  
 8097.0 V02a Numbers are being read without cadance. Same 5 number  
 groupi AM 06-02-03 Thu 0006 (Vambo)  
 8100.0 V02a Sometimes a group of 5 digits, sometimes a group of 6  
 digits. AM 20-02-03 Thu 0545 (PMi)  
 8103 E07 913/0 AM 28-02-03 Fri 0630 (HFD)  
 8110.0 E05 "585" //6970 USB 15-02-03 Sat 2200 (SE)  
 8110.0 E05 "585" // 6970 USB 18-02-03 Tue 2100 (SE)  
 8127 E10 MIW 52 AM 01-02-03 Sat 1615 (AB)  
 8127.0 E10 MIW2/6912 USB 11-02-03 Tue 0215 (BS4)  
 8127.0 E10 MIW2/6912 USB 23-02-03 Sun 2315 (BS4)  
 8135.0 M08a ID 48682 35051 77061(rpt of 2200z on 7526m) CW  
 18-02-03 Tue 2300 (MS)  
 8135.0 M08a ID 32151 33771 76581 CW 21-02-03 Fri 2300 (MS)  
 8136.0 M08a (in progress) CW 08-02-03 Sat 1100 (MS)  
 8136.0 M08a ID 47874 26032 96911 CW 22-02-03 Sat 1100 (MS)  
 8136.0 M08a (in progress) CW 23-02-03 Sun 1000 (MS)  
 8136.0 V02a In progress AM 21-02-03 Fri 2120 (CS)  
 8175 S10d 555 (3x) 912 (3x) 18 pozor pozor etc AM 01-02-03 Sat  
 1520 (AB)  
 8186.0 M08a ID 74113 49732 93312 CW 22-02-03 Sat 0700 (MS)  
 8190 S17C 11036 //5301 (new freqs, ex 9165) AM 01-03-03 Sat 1250  
 (HFD)  
 8300.0 V13 Star Star broadcasting AM 14-02-03 Fri 1400 (BM)  
 8300.0 V13 USB 17-02-03 Mon 1400 (BM)  
 8300.0 V13 USB 17-02-03 Mon 1500 (BM)  
 8494.7 MX Cluster beacon "D" Odessa CW 09-02-03 Sun 0904 (AB)  
 8494.9 MX Cluster beacon "S" Arkhangelsk CW 09-02-03 Sun 0904  
 8495 MX Cluster beacon "C" Moscow CW 08-02-03 Sat 0908 (AB)  
 8495 MX Cluster beacon "C" Moscow CW 09-02-03 Sun 0904 (AB)  
 8588 XSL Slot machine 01-02-03 Sat 2335 (AB)  
 8588.0 XSL Japanese PSK; faint USB 17-02-03 Mon 0500 (BM)  
 8588.0 XSL Japanese Navy PSK modem; faint USB 18-02-03 Tue 0510  
 (BM)  
 8703.5 XSL Slot machine 01-02-03 Sat 2335 (AB)  
 8992.0 V02 V2; in prog AM 03-02-03 Mon 0532 (BM)

9062.0 M08a ID 12643 87831 21263 (rpt of 0400z on 10235m) CW  
 09-02-03 Sun 0500 (MS)  
 9062.0 M08a ID 03934 87833 96911 (rpt of 0400z sked on 10235m) CW  
 23-02-03 Sun 0500 (MS)  
 9130.0 E10 EZI 2 msgs 96 JBFWT, xx xxxxx/6840 AM 13-02-03 Thu  
 0230 (BS4)  
 9130.0 E10 EZI 57 BTBSX/11565 AM 15-02-03 Sat 0300 (BS4)  
 9130.0 E10 EZI 96 BUXFJ, 29 DOAM0/13533 USB 16-02-03 Sun 2000  
 (BS4)  
 9130.0 E10 EZI 80 JMTTM/ Rpt of Msg 0130z 0212 6840k USB 16-02-03  
 Sun 2130 (BS4)  
 9130.0 E10 EZI 104 ZQYQL USB 18-02-03 Tue 2130 (BS4)  
 9130.0 E10 EZI 96 BUXFJ, 29 DOAM0/11565 Rpt of Msgs 2000z 0216  
 13533k an USB 18-02-03 Tue 2200 (BS4)  
 9130.0 E10 EZI2/6840,11565 USB 20-02-03 Thu 0230 (BS4)  
 9130.0 E10 EZI 57 BTBSX USB 21-02-03 Fri 0300 (BS4)  
 9130.0 E10 EZI 2 msgs 98 QWPSQ, 27 LOLUC USB 23-02-03 Sun 2130  
 (BS4)  
 9130.0 E10 EZI 84 JECAT USB 23-02-03 Sun 2200 (BS4)  
 9130.0 E10 EZI 98 QWPSQ, 27 LOLUC/6840 Rpt of Msgs 2130z 0223  
 9130k USB 24-02-03 Mon 0130 (BS4)  
 9130.0 E10 EZI 74 OBFBC/6840 AM 25-02-03 Tue 0330 (BS4)  
 9130.0 E10 EZI2/11565 USB 26-02-03 Wed 0200 (BS4)  
 9152.0 M08a (in progress) CW 01-02-03 Sat 1200 (MS)  
 9152.0 M08a ID 47874 26032 96911 (rpt of 1100z on 8136m) CW  
 22-02-03 Sat 1200 (MS)  
 9153.0 M08a ID 26033 07521 16231 CW 26-02-03 Wed 1000 (MS)  
 9153.0 V02a ID 86191 12451 71004 (YL/SS) AM 22-02-03 Sat 0700 (MS)  
 9165 S17C 74031 AM 02-02-03 Sun 1250 (HFD)  
 9165 S17C 99037 AM 08-02-03 Sat 1250 (HFD)  
 9165 S17C 11034 AM 09-02-03 Sun 1250 (HFD)  
 9165 S17C 78029 AM 14-02-03 Fri 1250 (HFD)  
 9165 S17C 99036 AM 15-02-03 Sat 1250 (HFD)  
 9165 S17C 99038 AM 16-02-03 Sun 1250 (HFD)  
 9165 S17C 11034 AM 17-02-03 Mon 1250 (HFD)  
 9220.0 V02 974 03 (R3) USB 22-02-03 Sat 1110 (MS)  
 9238.0 M08a ID 37152 79082 56013 CW 02-02-03 Sun 1100 (MS)  
 9238.0 M08a ID 63452 88292 03431 CW 09-02-03 Sun 1100 (MS)  
 9238.0 M08a (in progress) CW 23-02-03 Sun 1100 (MS)  
 9268.0 V02 A 697/06 06/55; new sked? AM 12-02-03 Wed 0600 (BM)  
 9323.0 M08a ID 61802 35351 44131 CW 22-02-03 Sat 1000 (MS)  
 9331.0 M08a ID 24952 28012 42492 CW 26-02-03 Wed 1000 (MS)  
 10046.0 M22 VVV DE 4XZ CW 18-02-03 Tue 0323 (BM)  
 10126.0 M08a (carrier up for normal length of scheduled broadcast,  
 but no CW 22-02-03 Sat 0900 (MS)  
 10126.0 M08a ID 26033 07521 16231 (rpt of 1000z on 9153m) CW  
 26-02-03 Wed 1100 (MS)  
 10235.0 M08a ID 12641 73443 56012 CW 02-02-03 Sun 0400 (MS)

10235.0	M08a	ID 12643 87831 21263 CW 09-02-03 Sun 0400 (MS)
10235.0	M08a	ID 03932 87832 68594 CW 16-02-03 Sun 0400 (MS)
10235.0	M08a	In prog CW 18-02-03 Tue 0408 (BM)
10235.0	M08a	ID 03934 87833 96911 CW 23-02-03 Sun 0400 (MS)
10236.0	M08a	ID 64481 86432 09082 (rpt of 0700z sked on 8096m) CW 23-02-03 Sun 0800 (MS)
10400		Spanish Reading Numbers-Still Transmitting. USB 23-02-03 Sun 0003 (AJF)
10446.0	V02a	In prog AM 17-02-03 Mon 0505 (BM)
10670.0	M31	VVVx3 DE FDI8x3 AR CW 26-02-03 Wed 2220 (MS)
10715.0	M08a	ID 24952 28012 42492 (rpt of 1000z on 9331m) CW 26-02-03 Wed 1100 (MS)
10871.7	MX	Cluster beacon "D" Odessa CW 09-02-03 Sun 0904 (AB)
10872	MX	Cluster beacon "C" Moscow CW 08-02-03 Sat 0908 (AB)
10872	MX	Cluster beacon "C" Moscow CW 09-02-03 Sun 0904 (AB)
10872.0	MX	"S" Arkhangelsk CW 16-02-03 Sun 0300 (BM)
11116	E11	232/00 AM 14-02-03 Fri 0800 (HFD)
11170	E17Z	670/0 AM 20-02-03 Thu 0800 (HFD)
11170.0	M23	310 CW 11-02-03 Tue 1700 (JE)
11432.0	M08a	(carrier up for normal length of scheduled broadcast, but no CW 22-02-03 Sat 0800 (MS)
11545.0	E03	In prog USB 17-02-03 Mon 1513 (BM)
11545.0	E03	ID 68631 USB 17-02-03 Mon 1600 (BM)
11565.0	E10	EZI 57 BTBSX/9130 AM 15-02-03 Sat 0300 (BS4)
11565.0	E10	Alphabetic message in progress; extremely loud USB 17-02-03 Mon 0311 (BM)
11565.0	E10	very faint USB 18-02-03 Tue 0445 (BM)
11565.0	E10	EZI2 USB 18-02-03 Tue 0500 (BM)
11565.0	E10	EZI 96 BUXFJ, 29 DOAM0/9130 Rpt of Msgs 2000z 0216 13533k and USB 18-02-03 Tue 2200 (BS4)
11565.0	E10	EZI2/6840,9130 USB 20-02-03 Thu 0230 (BS4)
11565.0	E10	EZI2/9130 USB 26-02-03 Wed 0200 (BS4)
12176	M42	Dep. of State Comms Moscow, 5LGs to NQX on link 00052 RTTY 01-02-03 Sat 0705 (LD0)
12603.0	E03	ID 68631 USB 17-02-03 Mon 1600 (BM)
13366	V07	382/0 AM 27-02-03 Thu 0600 (HFD)
13375.0	E03	ID 68631 USB 17-02-03 Mon 1600 (BM)
13527.7	MX	Cluster beacon "D" Odessa CW 09-02-03 Sun 0904 (AB)
13527.9	MX	Cluster beacon "S" Arkhangelsk CW 09-02-03 Sun 0904
13528	MX	Cluster beacon "C" Moscow CW 08-02-03 Sat 0908 (AB)
13528	MX	Cluster beacon "C" Moscow CW 09-02-03 Sun 0904 (AB)
13533.0	E10	EZI 96 BUXFJ, 29 DOAM0/9130 USB 16-02-03 Sun 2000 (BS4)
13594.0	M08a	ID 56863 22081 51091 (this is harmonic freq of 6797m) CW 23-02-03 Sun 1200 (MS)
13866.0	M08a	ID 56862 12783 32133 (harmonic of 6933m at 1200z-signal not d CW 22-02-03 Sat 1200 (MS)
13921	E10	MIW 52 AM 01-02-03 Sat 1545 (AB)

14640.0 M08a ID 56863 22081 51091 (this is harmonic freq of 7320m)  
 CW 23-02-03 Sun 1300 (MS)  
 14866 V07 382/0 AM 25-02-03 Tue 0620 (HFD)  
 14930.0 E06 829-567/108 08561 AM 09-02-03 Sun 1500 (JE)  
 15272 XP msg AM 28-02-03 Fri 0700 (HFD)  
 15780.0 M08a ID 49061 73372 94702 (harmonic of 7890m) CW 08-02-03  
 Sat 1300 (MS)  
 15780.0 M08a ID 56862 12783 32133 (harmonic of 7890m at 1300z) CW  
 22-02-03 Sat 1300 (MS)  
 15817.0 E06 "302 489 30 88262..." USB 16-02-03 Sun 1330 (SE)  
 15845.0 E06 307-586/127 12248 AM 13-02-03 Thu 1600 (JE)  
 16254 E06 791-325/68=06168 AM 01-03-03 Sat 1330 (HFD)  
 16331.7 MX Cluster beacon "D" Odessa CW 09-02-03 Sun 0904 (AB)  
 16331.9 MX Cluster beacon "S" Arkhangelsk CW 09-02-03 Sun 0904  
 16332 MX Cluster beacon "C" Moscow CW 08-02-03 Sat 0908 (AB)  
 16332 MX Cluster beacon "C" Moscow CW 09-02-03 Sun 0904 (AB)  
 16472 XP msg AM 14-02-03 Fri 0720 (HFD)  
 16472 XP msg AM 28-02-03 Fri 0720 (HFD)  
 17433.0 E06 "302 489 30 88262..." USB 16-02-03 Sun 1230 (SE)  
 17442.0 E06 "302 489 30 88262..." USB 15-02-03 Sat 1230 (SE)  
 18235 E06 791-325/68=06168 AM 01-03-03 Sat 1230 (HFD)  
 20047.7 MX Cluster beacon "D" Odessa CW 09-02-03 Sun 0904 (AB)  
 20048 MX Cluster beacon "C" Moscow CW 08-02-03 Sat 0908 (AB)  
 20048 MX Cluster beacon "C" Moscow CW 09-02-03 Sun 0904 (AB)

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